

**SITE REGISTRY REPORT**  
**Silverbell Jail Annex Landfill Site**  
**Pima County, Tucson, Arizona**  
**March 3, 1999**

The Silverbell Jail Annex Site (the Site) is located within the Tucson Basin, which is part of the upper Santa Cruz River Valley. The Silverbell Jail Annex Landfill (the Landfill) is located at 3200 North Silverbell Road in northwest Tucson. The Site lies between, but is not bounded by Silverbell Road on the west, Sweetwater Drive on the north, Interstate 10 on the east, and Grant Road/Ironwood Hill Drive on the south. See attached Site Boundary Map.

The Landfill is a closed municipal solid waste landfill owned and operated by the City of Tucson (COT). The Landfill is made up of two cells which comprise approximately 40 acres. The South Cell received wastes between 1966 and 1973. The North Cell received wastes between 1973 and 1977. Neither cell accepted hazardous waste though site access was not strictly controlled. The South cell has been covered with soil. The North Cell has been covered and revegetated and now underlies the Silverbell Golf Course.

In the fall of 1983, groundwater was found to be contaminated at the Tratel Mobile Home Park to the east of the Site. The COT began conducting subsurface investigations in 1983 and ADEQ began conducting groundwater investigations in 1985. Volatile organic compounds (VOCs) were identified in the groundwater in the area. In June 1987 the COT submitted a Letter of Intent (LOI) to ADEQ proposing remedial action be taken at the Site which was then located in what was known as the Miracle Mile Interchange Area (MMIA).

ADEQ continued investigations outside the Landfill. The University of Arizona completed a remedial investigation (RI) at the University of Arizona Experimental Farms Site (UofA Site) in 1995. The ADEQ closed the UofA Site in June 1995 as the data and information did not indicate that the UofA Site was a source for PCE and TCE contamination identified in the groundwater.

In accordance with 1997 WQARF reforms, the former MMIA has been redefined to more specifically describe the extent of known contamination in the area. As a result, two new sites have been established within the former MMIA Site boundary; the Miracle Mile Site and the Silverbell Jail Annex Landfill Site (SBJ). The SBJ Site includes the Tratel Mobile Home Park and the UofA Site.

The COT, with oversight by ADEQ, completed an interim final Remedial Action Plan (RAP) for the Silverbell Jail Annex Landfill which was presented at a public open house on June 24, 1995. The RAP proposed a pump and treat system which would extract groundwater from the aquifer and treat it by air stripping utilizing a carbon filter. Treated water would be reinjected and/or reused at Silverbell Golf Course.

In 1996, ADEQ approved the COT's request to conduct a pilot study to evaluate the effectiveness of recirculation well technology at the Site to replace and/or enhance the approved pump and treat system. The COT completed the study and submitted their conclusions to ADEQ in February 1998. The COT is currently collecting more data in an effort to make a decision as to the effectiveness of utilizing such technology for remediation at the Landfill.

Pathways of concern involve soil and groundwater. Recent groundwater quality data collected by the COT indicates that VOCs continue to be present above the Aquifer Water Quality Standards(AWQS) in several wells in the area. The highest concentrations of VOCs detected in the monitor wells at the Landfill are tetrachloroethene (PCE) at 180 micrograms per liter (Fg/l) and trichloroethene (TCE) at 32.1Fg/l. One well exceeds AQWS for vinyl chloride (VC).

The Site was evaluated, using the Eligibility & Evaluation (E&E) form developed by the department in 1996, resulting in a score of 51. See the attached E&E form.

This draft Site Registry Report (SRR) is based upon information available as of the date prepared. The SRR is intended as a historical document meeting the public notification requirements of ARS § 49-287.01 (B) and (D). Site boundaries depicted on the attached Site Boundary Maps represent ADEQ's interpretation of data available at the time the maps were constructed. The maps are intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of the SRR. The actual extent of contamination may be different. Therefore, the geographic boundaries for this site may change in the future as new information becomes available.

Public comments to the Draft SRR will be considered prior to finalization. An updated SRR **will not** be issued once finalized. As new information becomes available in the future, it will be made available for public review through placement in the public file.

Interested persons are encouraged to review current information, and more detailed historical information, located in the public site file at either the ADEQ Tucson Office or the ADEQ Phoenix Office (Site File #E-II-5240) and identified by the attached site file index.